Discrete Mathematics
Volume 283, Numbers 1–3, 6 June 2004

Contents

Contributions

J. Bang-Jensen
The structure of strong arc-locally semicomplete digraphs 1

G. Barequet
The on-line Heilbronn's triangle problem 7

D.R. Berman, S.C. McLaurin and D.D. Smith
Ranking whist players 15

B. Bogstad and L.J. Cowen
The distinguishing number of the hypercube 29

A.P. Burger and J.H. van Vuuren
Ramsey numbers in complete balanced multipartite graphs. Part I: Set numbers 37

A.P. Burger and J.H. van Vuuren
Ramsey numbers in complete balanced multipartite graphs. Part II: Size numbers 45

An Chang, F. Tian and A. Yu
On the index of bicyclic graphs with perfect matchings 51

A. Di Nola and R. Grigolia
Pro-finite MV-spaces 61

R.W. Fitzgerald and J.L. Yucas
Pencils of quadratic forms over finite fields 71

M. Grech and A. Kisielewicz
Direct product of automorphism groups of colored graphs 81

R. Haas and T.B. Wexler
Signed domination numbers of a graph and its complement 87

G. Hahn, P. Ille and R.E. Woodrow
Absorbing sets in arc-coloured tournaments 93

A. Hajdu and L. Hajdu
Approximating the Euclidean distance using non-periodic neighbourhood sequences 101

A. Hellwig and L. Volkmann
Sufficient conditions for λ'-optimality in graphs of diameter 2 113

0012-365X/04/$ - see front matter
doi:10.1016/S0012-365X(04)00183-9

M. Hosseini Dolama, Éric Sopena and X. Zhu
Incidence coloring of k-degenerated graphs 121

M. Kano, G.Y. Katona and Z. Király
Packing paths of length at least two 129

D. Kuo and J.-H. Yan
On $L(2,1)$-labelings of Cartesian products of paths and cycles 137

R. Li
Hamiltonicity of 2-connected quasi-claw-free graphs 145

V. Lozin and D. Rautenbach
Chordal bipartite graphs of bounded tree- and clique-width 151

N. Martin
Unbalanced star-factorisations of complete bipartite graphs 159

K. Pióro
On some graph problem in the theory of partial algebras—Part I 167

K. Pióro
On some graph problem in the theory of partial algebras—Part II 189

L.A. Sanchis
Relating the size of a connected graph to its total and restricted domination numbers 205

L. Volkmann and S. Winzen
Cycles through a given arc and certain partite sets in almost regular multipartite tournaments 217

L. Wang, X. Li and C. Hoede
Integral complete r-partite graphs 231

Notes

W.D. Gao and X. Jin
Weighted sums in finite cyclic groups 243

M. Gionfriddo, L. Milazzo, A. Rosa and V. Voloshin
Bicolouring Steiner systems $S(2,4,v)$ 249

T.A. Gulliver and P.R.J. Östergård
Binary optimal linear rate 1/2 codes 255

R. Häggkvist and R. Johansson
A note on edge-decompositions of planar graphs 263

K.E. Mellinger
Classical mixed partitions 267

P. Šparl and J. žerovnik
Homomorphisms of hexagonal graphs to odd cycles 273

D. Stevanović
Bipartite density of cubic graphs: the case of equality 279

J. Wang and B. Du
$K_{p,q}$-factorization of the complete bipartite graph $K_{m,n}$ 283

L. Zhang and B. Wu
Edge choosability of planar graphs without small cycles 289

Author index to volume 283 295

Guide for authors 297

CONTENTS Direct

This journal is part of **ContentsDirect**, the ***free*** alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: **http://contentsdirect.elsevier.com**